

## HIGH FREQUENCY POWER AMPLIFIER

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### Abstract

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**PURPOSE:** To reduce collector loss and to improve efficiency of high frequency output power to power consumption of a device.

**CONSTITUTION:** A high frequency power amplifier using an electronic tube 1 is equipped with a collector power source 2 for the electronic tube whose voltage is changed by receiving a voltage control signal, a detection circuit 4 which detects a high frequency output voltage, and a collector voltage control circuit 5 which outputs the voltage control signal to control the output voltage of the collector power source so as to optimize the collector voltage corresponding to a ratio of high frequency power to electronic tube power consumption detected by the detection circuit.

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